

Hawaiian Exploratⁿ
#1.

Mar. 14 - 31, 1902.

D^r. 3791 - D^r. 3819.

Hy. 4035 - Hy. 4052.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Pat Log 58.8

No. 3791 Date Mch. 14th 1902.

Sigsbee Machine. Reel. #1. Navy.

Turns 2435 Cor. + 194 Depth 2629 fms.

Shot or lead 60#.

Bottom Lt. br. M. (rd. C.)

Bottom temperature

No. of thermometer None Cor.

Corrected temperature

Air 57 Surface 60 Drift $2\frac{1}{3}$ mi West (0)

Trawl or dredge Surface Tows Net

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

1-13.40	24.45	0	2-39.40	4.40.20
14.40	23.35	100	43.30	37.35
15.40	22.30	200	46.10	35.00
16.40	21.25	300	49.50	32.30
17.40	20.10	400	52.10	30.00
18.40	19.05	500	55.50	27.35
19.50	18.05	600	57.20	20.50
20.55	17-	700	3-00.20	18.40
22.05	15.50	800	04.30	16.40
23.15	14.45	900	06.50	14.30
24.30	13.35	1000	08.50	12.10
25.50	12.25	1100	10.50	09.50
27.05	11.05	1200	12.45	07.30
28.25	09.50	1300	14.35	05.05
29.50	08.25	1400	16.10	02.40
31.10	06.55	1500	18.05	4.00.10
32.40	05.25	1600	20-	57.45
34.20	03.50	1700	21.50	55.30
36.20	02.15	1800	23.30	53-
38.10	2:00.35	1900	25.20	50.40
39.45	58.50	2000	27.10	48.20
41.20	57.05	2100	28.50	46.50
43-	55.10	2200	30.00	44.20
44.45	53.20	2300	31.30	41.50
46.25	50.50	2400	33-	39.10

33° 08' 45" N. 130° 41' W. ~~Green Bank~~

47.35 1:50.15 ²⁴³⁵₂₅₀₀ 35- 3- 35.50

2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

CS chart
5002-

4600 246
2435 52
2165 194
2435
2629

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	Partly overcast - cloudy; gentle sea, and breeze from N x W.			
100				
200				
300				
400				
500				
600	Ran out 2500 fms. dredging cable attached to 520 # sinker, to remove turns etc.			
700				
800				
900	For surface net contents, see next page.			
1000				

REMARKS:

Surface Net over at 2.50 PM
" " in " 3.20 "
Lining of net torn; small catch.
Nets stretched 25 fms

No.

3791, cont

Date

Mar 14th 02

Machine.

Reel.

Turns

Cor. +

Depth

2629 fms

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

58

Surface

60

Drift

{ Int. net.
2 1/2 mi - West

Trawl or dredge

Intermediate

Net

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

4-47.00 5. 38.10

100

51.50 31.15

180

56.00 5. 26.25

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
(true)	3300	
	3400	
	3500	
	3600	
	3700	
Towing depth	3800	
100 fms -	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Weather conditions same as preceding trial -			
50				
100				
200	Surface net = 6 blue copepods; 1 radiolaria; number of foraminifera; fragment of salpae, etc.			
400				
500				
600	Int Net = 1 Red amphipod; numerous copepods, automostracan larvae, and foraminifera; few fish eggs; 1 salpa; 1 worm.			
700				
800				
900				
1000				

REMARKS:

Int net was torn when lowered, but nevertheless brought up many small crustacea - Towed too fast.

Pat Log 446

No. 4035 Date 15 Mar 02

Machine. Reel. #1 Navy

Turns 1956 Cor. + 165 Depth 2121 fms.

Shot or lead 60 Lbs.

Bottom Mang. Mud - G. ls M. (nd C)

Bottom temperature 34.8

No. of thermometer #92442. Cor.

Corrected temperature

Air 56 Surface 60 Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
7-3.40	55.50	0		
4.40	54.30	100		
5.30	53.30	200		
6.20	52.20	300		
7.20	51.20	400		
8.20	50.15	500		
9.20	49.05	600		
10.20	47.50	700		
11.25	46.30	800		
12.30	45.10	900		
13.50	43.50	1000		
15.00	42.30	1100		
16.10	41.00	1200		
17.30	39.20	1300		
18.50	38.00	1400		
20.00	36.25	1500		
21.30	34.50	1600		
22.50	33.10	1700		
24.10	31.30	1800		
25.40	30.00	1900		
26.50	28.30	1956		
		2000		
		2100		
		2200		
		2300		
		2400		

32° 55' 05" N. 132° 18' 10" W.

2500

Erben Bank

2600

2700

CS #5002.

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

Use thermometer at this trial.

4600

1246

1956

81

~~2654~~

165

1956

2121

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Hutchinson
Stater*

Cat Log- 48.6

No. *3792* Date *15 Mar 1902*
Sigsbee Machine. Reel. *#1 Navy*
 Turns *965* Cor. + *94* Depth *1059 fms*
 Shot or lead *60#*
 Bottom *Hc. mang. S. Foram. Rky.*
 Bottom temperature *38.5*
 No. of thermometer *92442* Cor. *N4.8 E 1 mi*
 Corrected temperature *{ N4.8 E (map) }*
 Air *57* Surface *60* Drift *1 mile*
 Trawl or dredge *8 ft Tanner* *{ 1 haul 2 wing weights }*

SOUNDING WIRE.

DOWN.	UP.
<i>8. 35.10</i>	<i>56.30</i>
<i>36 -</i>	<i>55.30</i>
<i>36.50</i>	<i>54.25</i>
<i>37.40</i>	<i>53.25</i>
<i>38.30</i>	<i>52.20</i>
<i>39.30</i>	<i>51.20</i>
<i>40.25</i>	<i>50.10</i>
<i>41.25</i>	<i>49 -</i>
<i>42.25</i>	<i>47.40</i>
<i>43.25</i>	<i>46.15</i>
<i>44.10</i>	<i>45.20</i>

TURNS.

0
100
200
300
400
500
600
700
800
900
<i>965</i>
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400

DREDGE ROPE.

DOWN.	UP.
<i>9-14 -</i>	<i>12.23.00</i>
<i>18.20</i>	<i>17.40</i>
<i>21.40</i>	<i>13.50</i>
<i>24.45</i>	<i>10.30</i>
<i>28.25</i>	<i>07.20</i>
<i>31.40</i>	<i>04.10</i>
<i>34.40</i>	<i>12.01.00</i>
<i>38.00</i>	<i>57.50</i>
<i>41.15</i>	<i>54.35</i>
<i>43.50</i>	<i>57.15</i>
<i>46.30</i>	<i>47.20</i>
<i>48.35</i>	<i>42.55</i>
<i>51.10</i>	<i>39.10</i>
<i>55 -</i>	<i>35.30</i>
<i>58.50</i>	<i>31.45</i>
<i>10-02.20</i>	<i>27.35</i>
<i>05.40</i>	<i>22.30</i>
<i>09.30</i>	<i>17.25</i>
<i>13 -</i>	<i>09.05</i>
<i>16.50</i>	<i>11-02.40</i>
<i>20.30</i>	<i>10-55 -</i>
<i>5000 strain when started to leave in.</i>	

Trawl contained
2 pieces Rock

Surface net:
several small fishes,
about 1/2" long; several
blue mollusks
(pteropods?), a
number of copepods,
schizarians, etc.

Number of trucks in. Only
three from 150 fms in.

32° 54' N. 132° 23' 45" W.

OK H.C.S. 7		2500	Even Bank	
		2600		
		2700	CS #5002.	
		2800		
		2900		
		3000		
	Decreased depth somewhat.	3100		
		3200		
		3300		
	Cloudy; light breeze from NNE. Sea smooth.	3400		
		3500		
		3600	4600	246
		3700	965	152
		3800	3635	94
		3900		965
		4000	1059	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Unusually heavy strain on dredge rope			
50				
100				
200	Net came up capsized, minus frame & two weights; fish rope tore off net.			
300				
400				
500				
600				
700				
800	Net rigged with Canvas shield, or apron.			
900				
1000				

REMARKS:

Surface Net run at 9.50 a.
 " " in " 10.12 "
 Drift N x W. (mag) 1/2 mile.
 Surface Net run at 10.30 a.
 " " in " 10.55 "
 Drift N x W. (mag) 3/8 mile.

507.

No. 4051 Date 1911

Machine. Reel.

Turns Cor. + Depth

Shot or lead 35 lb

Bottom crs. mang. S.

Bottom temperature 13.7

No. of thermometer 92442 Cor.

Corrected temperature

Air 64 Surface 62. Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
1.11.11		0		
1.11.40		100		
		200		
		300		
1.11.59	1.11.10	400		
1.12.20		500		
1.12.50	1.12.15	600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

32° 55' 45" N. 132° 32' 35" W.

		2500	Erben Bank.
		2600	
		2700	55° 50' 00"
		2800	
		2900	
		3000	
		3100	
		3200	45° 50' 20"
		3300	50° 50' 20"
		3400	55° 50' 20"
		3500	60° 50' 20"
		3600	65° 50' 20"
		3700	70° 50' 20"
		3800	75° 50' 20"
		3900	80° 50' 20"
		4000	85° 50' 20"

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *427* Date *15/11/07*
 Machine. *11* Reel.
 Turns *42* Cor. + *11* Depth *1034* fms.
 Shot or lead *35 lb*
 Bottom *gy. m. s.*
 Bottom temperature *36.1*
 No. of thermometer *92442* Cor.
 Corrected temperature
 Air *60* Surface *62* Drift
 Trawl or dredge

SOUNDING WIRE.

DOWN. UP.

TURNS.

DREDGE ROPE.

DOWN. UP.

<i>1. 15. 00</i>	<i>10. 40</i>	0	
<i>46. 15</i>	<i>09. 00</i>	100	
<i>1. 25. 15</i>	<i>08. 00</i>	200	
<i>41. 15</i>	<i>07. 15</i>	300	
<i>1. 30. 20</i>	<i>06. 15</i>	400	
<i>07. 00</i>	<i>05. 15</i>	500	
<i>3. 00</i>	<i>04. 15</i>	600	
<i>2. 30</i>	<i>03. 15</i>	700	
<i>2. 00</i>	<i>02. 15</i>	800	
<i>1. 50. 00</i>	<i>01. 15</i>	900	
<i>1- 41. 15</i>	<i>00. 15</i>	1000	
		1100	
		1200	
		1300	
		1400	
		1500	
		1600	
		1700	
		1800	
		1900	
		2000	
		2100	
		2200	
		2300	
		2400	

32° 54' 50" N. 132° 35' 20" W.

OK

	2500	Tide	Bank
	2600		
	2700		
	2800		
	2900		
	3000		
	3100		
	3200		
	3300	10000	245
	3400	2000	150
	3500	3000	90
	3600		940
	3700		1004
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *4014*Date *1. 1. 1901*

Machine.

Reel.

Turns *1200* Cor. + *100*Depth *1300 fms*Shot or lead *35 lb*Bottom *fine grey sand*Bottom temperature *37.5*No. of thermometer *9144*

Cor.

Corrected temperature

Air

Surface *1*

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

2.39.20 *3.08.30*

0

33.50 *07.30*

100

34.50 *06.30*

200

36.20 *05.30*

300

37.50 *04.30*

400

39.20 *03.30*

500

40.50 *02.30*

600

42.20 *01.30*

700

43.50 *00.30*

800

45.20 *59.30*

900

46.50 *58.00*

1000

48.20 *57.00*

1100

49.50 *56.30*

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

32° 54' N. 132° 38' 47" W.

616

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

Under Bank

4600 216

1200 134

3400 112

1200

1312

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

35° 53' 00" N, 132° 36' 28" W.

61 201 211 221		2500	Erben Bank
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	5000 2 4 3
		3200	623 1 8 3
		3300	3907 4 3
		3400	623
		3500	476
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300	1			
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Dr. 3793.* Date *15 March '02**Sigsbee* Machine. *N. 1.* Reel. *Navy*Turns *495* Cor. + *50*Depth *545 fms.*Shot or lead *35 Lbs.*Bottom *Mang. E. Corals. R. C.*Bottom temperature *39.0*No. of thermometer *92442.* Cor.

Corrected temperature

Air *62.* Surface *61.* Drift *N 35 W*Trawl or dredge *Tangle Dredge 10*

SOUNDING WIRE.

DREDGE ROPE.

P.M.	SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
	DOWN.	UP.		DOWN.	UP.
<i>4.</i>	<i>20.20</i>	<i>4.35.00</i>	<i>0</i>	<i>4.42.00</i>	<i>6.09.30</i>
	<i>21.30</i>	<i>33.40</i>	<i>100</i>	<i>46.15</i>	<i>05.30</i>
	<i>22.50</i>	<i>32.30</i>	<i>200</i>	<i>49.40</i>	<i>6.01.35</i>
	<i>24.10</i>	<i>31.30</i>	<i>300</i>	<i>52.40</i>	<i>57.45</i>
	<i>25.40</i>	<i>30.15</i>	<i>400</i>	<i>56.00</i>	<i>54.00</i>
	<i>27.00</i>	<i>28.40</i>	<i>500</i>	<i>59.20</i>	<i>50.00</i>
			<i>600</i>	<i>6.03.10</i>	<i>46.15</i>
			<i>700</i>	<i>06.40</i>	<i>42.00</i>
			<i>800</i>	<i>10.00</i>	<i>37.00</i>
			<i>900</i>	<i>5.12.00</i>	<i>32.00</i>
			<i>1000</i>		

Surface Net Contents:

Several mollusks (*Gastropoda*?), *Hydrozoa*,
Medusarians, *Polypae*; 1300 fragment of *siphon-*
ophora; few *pteropods*; 1400 2 kinds small
 fishes; and quite a 1500 number of
 indistinguishable forms. 1600

Lost

Tangle 2200 *1 Bar. T*
 2300
 Eye-bolt in *crane* 2400

Number links from 200 fms, in.

32° 52' 53" N. 132° 34' 10" W.

<p>OK 1000. 2000. 3000. 4000. 5000. 6000. 7000. 8000. 9000. 10000.</p>		2500	<p>Under Bank</p>
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<p>Cloudy; light breeze from N.W.; sea smooth.</p>			
50				
100				
200				
300				
400				
500	<p>F. pennatulids on dredge cable.</p>			
600				
700				
800				
900				
1000				

REMARKS:

Surface Net over at 4.52 a.m.
 " " in " 5.07 " } 15 min
 " " in " 5.15 " } 10 min
 " " in " 5.25 " }
 " " over " 5.30 " }
 " " in " 5.45 " }

No. *4040* Date *15 March*
Sigsbee Machine. Reel. *No. 1*
 Turns *375* Cor. + *37* Depth *412 fms*
 Shot or lead *35 lb.*
 Bottom *manq. S.*
 Bottom temperature *—*
 No. of thermometer *None* Cor.
 Corrected temperature
 Air *57* Surface *60* Drift
 Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

6.23.35 *35.10*
25.00 *34.00*
26.50 *32.50*
27.10 *31.40*
28.05 *6:30.30*

375

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

32° 53' 40" N. 132° 33' 35" W.

OK
16/11/11
7

2500	Erken Baul
2600	
2700	
2800	
2900	
3000	
3100	
3200	
3300	
3400	
3500	
3600	
3700	
3800	
3900	
4000	

4600 - 246
375 209
— 37
4225 375

412 fms.

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

This station made by
drift of 101 #3242-

507. H. L. ... *Port ...*

No. *1041* Date *16 Mar 14*
Sigsbee Machine. Reel. *#1*
 Turns *1730* Cor. + *10* Depth *1882*
 Shot or lead *35*
 Bottom *yl. gy. foram.*
 Bottom temperature *35*
 No. of thermometer *72442* Cor.
 Corrected temperature
 Air *58* Surface *61* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>6-16-41</i>	<i>23.15</i>	0		
<i>35.11</i>	<i>22.05</i>	100		
<i>36.50</i>	<i>20.50</i>	200		
<i>38.30</i>	<i>19.40</i>	300		
<i>40.00</i>	<i>18.30</i>	400		
<i>41.45</i>	<i>17.25</i>	500		
<i>43.30</i>	<i>16.20</i>	600		
<i>45.15</i>	<i>15.05</i>	700		
<i>47.00</i>	<i>14.00</i>	800		
<i>48.45</i>	<i>13.05</i>	900		
<i>50.30</i>	<i>11.10</i>	1000		
<i>52.15</i>	<i>10.05</i>	1100		
<i>54.00</i>	<i>09.30</i>	1200		
<i>55.45</i>	<i>07.10</i>	1300		
<i>57.30</i>	<i>05.50</i>	1400		
<i>59.10</i>	<i>04.25</i>	1500		
<i>56.50</i>	<i>02.50</i>	1600		
<i>58.30</i>	<i>01.15</i>	1700		
<i>59.10</i>	<i>00.30</i>	1730		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

32° 54' 50" N, 132° 22' 45" W,

		2500	Water Sample
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
4600	246	3600	
1730	72	3700	
2870	152	3800	
	1730	3900	
	1882	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507.

No. 547 Date Jan. 1902
Machine. Reel. Trawl
Turns 745 Cor. + 75 Depth 820 fms
Shot or lead 35 #

Bottom mang. S. Foram. Rky.

Bottom temperature 28.1

No. of thermometer 92442 Cor.

Corrected temperature

Air 67 Surface 61 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4.15	6.35	0		
4.20	6.30	100		
4.25	6.25	200		
4.30	6.20	300		
4.35	6.15	400		
4.40	6.10	500		
4.45	6.05	600		
4.50	6.00	700		
4.55	5.55	800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

32° 48' 55" N. 132° 32' W.

<div>OK</div> <div>4600, 246</div> <div>246</div> <div>3850</div>		2500	Urban Bank
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

G. Log 85.

No. *245* Date *15th May 1887*

Machine. / Reel.

Turns *1187* Cor. + Depth *1187*

Shot or lead

Bottom *Foram. spec. Rny.*

Bottom temperature *37*

No. of thermometer *92442* Cor.

Corrected temperature

Air *61* Surface *62* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
	<i>50.00</i>	200		
<i>20</i>	<i>34.00</i>	300		
<i>25</i>	<i>32.30</i>	400		
<i>20</i>	<i>50.20</i>	500		
		600		
		700		
	<i>41.00</i>	800		
<i>7</i>		900		
	<i>42.10</i>	1000		
		1100		
	<i>43.00</i>	<i>1187</i>		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

32° 48' 05" N. 132° 32' 55" W.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

Urban Bank.

1/100 246
1187 225
121 111
1187
1278

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 11077 2570 Date 1/12Machine. 1 Reel.Turns 978 Cor. + 11Depth 12 112

Shot or lead

Bottom Plat. Mang. S. 1. 1. 1.

Bottom temperature

No. of thermometer 92442 Cor.

Corrected temperature

Air 68 Surface 61 Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

32° 51' N. 132° 33' 50" W.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

Ketchikan Bank

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 194 Date 16 / Nov / 1902

Machine. / Reel. /

Turns 10 Cor. +

Depth 751

Shot or lead 35 lb

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 68

Surface 6

Drift 10

Trawl or dredge: 2 Swifts attached.

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
		0	11.45	1. 35.00
		100		32.10
		200	52.50	28.50
		300	55.00	25.10
		400	12.00	21.50
		500	04.35	18.10
		600	08.30	14.30
		700	11.00	10.50
		800	12.50	7.10
		900	15.00	3.30
		1000	17.00	
		1100		
		1200	19.30	
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Under way 500 fms in.
 Dredge & Swift lost.

32° 52' N. 132° 34' 15" W.

		2500	
		2600	
ok		2700	
HOIS.		2800	
7		2900	
		3000	
		3100	
1600 2		3200	
710 175		3300	
550	71	3400	
	110	3500	
	785	3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

11.53 a.m.
12.00 a.m.

no specimens -

A few colonial radiolarians taken from
over the side in deep-sea net.

No. 44. Date 10 March 1902.

Machine. Sigsbee Reel. Navy

Turns 1144 Cor. + 100

Depth 1244

Shot or lead 35 lbs.

Bottom gy. S. M. gy. M. gy.

Bottom temperature 35.8

No. of thermometer 72442. Cor.

Corrected temperature

Air 63° Surface 61° Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
01.30	2.33.00	0		
02.30	2.34.00	100		
03.35	2.35.00	200		
04.40	2.36.00	300		
05.40	2.37.00	400		
06.40	2.38.00	500		
07.40	2.39.00	600		
08.40	2.40.00	700		
09.40	2.41.00	800		
10.40	2.42.00	900		
11.40	2.43.00	1000		
12.40	2.44.00	1100		
2.17.15	2.18.10	1144		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

33° 50' N. 132° 35' W.

OK
11/28/20

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

Erbin Bank

4600 246
1149 138
3451 108
1149
1207

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Dr. 3795*. Date *16 Nov, 02*

Machine. *S. L.* Reel.

Turns *530* Cor. + *53* Depth *583*

Shot or lead *35 Lbs.*

Bottom *Foram. Gt. Sp. Rcy.*

Bottom temperature *38.7*

No. of thermometer *9212* Cor. *0.1*

Corrected temperature

Air *59* Surface *61* Drift *W N W*

Trawl or dredge *2*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>2</i>	<i>3</i>	<i>0</i>	<i>21.50</i>
<i>3</i>	<i>2.40</i>	<i>100</i>	<i>17.50</i>
	<i>2.40</i>	<i>200</i>	<i>14</i>
<i>05</i>	<i>2.15</i>	<i>300</i>	<i>13.40</i>
<i>06</i>	<i>08</i>	<i>400</i>	<i>07.40</i>
<i>07</i>	<i>07.40</i>	<i>500</i>	<i>04.40</i>
<i>08</i>	<i>07.20</i>	<i>600</i>	<i>01.50</i>
		<i>700</i>	<i>58.30</i>
		<i>800</i>	<i>57.10</i>
		<i>900</i>	
		<i>1000</i>	
		<i>1100</i>	
		<i>1200</i>	
		<i>1300</i>	
		<i>1400</i>	
		<i>1500</i>	
		<i>1600</i>	
		<i>1700</i>	
		<i>1800</i>	
		<i>1900</i>	
		<i>2000</i>	
		<i>2100</i>	
		<i>2200</i>	
		<i>2300</i>	
		<i>2400</i>	

32° 54' N. 132° 33' 40" W.

OK 280 281 282		2500	Tide gauge from Sun. mouth.	Tide gauge from Sun. mouth.
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
283	284	3500		
285	286	3600		
287	288	3700		
289	290	3800		
291	292	3900		
293	294	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1 Small red ophiuran + fragment of
calcareous sponge in dredge.

con.

No. 54 3796 Date 17 March '02

Machine. — Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor. 36-2-1
(5) 14.71

Corrected temperature

Air 66 Surface 62 Drift 1 1/2 mi

Trawl or dredge Surface Dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

9-00 9-55

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
(500)	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

[illegible]

REMARKS:

Surface nets over both sites -
3 times on first site at surface
3 " " " " 25 feet below
Interval of 15 min. each site
15 minutes 45 minutes

No. 3797

Date 17 Nov 1902

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor. 862021

Corrected temperature

Air 60 Surface 63 Drift 5.7147 N. 1 mile

Trawl or dredge Surface Trawl

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

7-50

7-48

0

100

200

300

400

500

600

700

800

900

1000

1100

Sub-surface hauls =

Copepods (more species than at

surface); fragments of medusa;

scapula, pteropods, argostea,

lucifer, biphysopsis, small fishes.

1700

1800

1900

2000

2100

2200

2300

2400

31° 55' N. 134° 55' W. 1

21 12 13 05

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	20.0	1		
50	18.5	1		
100	17.0	1		
200	15.0	1		
300	13.0	1		
400	11.0	1		
500	9.0	1		
600	7.0	1		
700	5.0	1		
800	3.0	1		
900	1.0	1		
1000	0.0	1		

REMARKS:

Surface water very warm
S. 1000

3 hauls in port and
2 " " " " " "

No. *5-3798* Date *18 Nov 1902*

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Corrected temperature

Air *60* Surface *63* Drift *562.7*
(574.7)

Trawl or dredge *Surface Trawl*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

9-05

9-30

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400

4000

REMARKS:
 Sample taken from the
 bottom. 8 ft. water at surface
 + other water 25 ft. below.
 4 ft. water
 1 ft. water

507.1114

No. 3744

Date 1/17/1902

Machine.

Recl.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 63

Surface 65

Drift 1/2 mi

Trawl or dredge

SOUNDING WIRE

DREDGE ROPE

DOWN.

UP.

TURNS.

DOWN.

UP.

100

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Bot. net contents

Caprellids, Amphipods, Isopods, Mysids, other crustaceans, small mollusks, etc.; also, starfishes.

4000

REMARKS:

No. *Dr. 3800* Date *19 March 1902*

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *63°* Surface *60°* Drift *2.00*Trawl or dredge *Transect Intermediate*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

9.12.10 *9.21.50*

100

18.15 *28.50*

150

200

30.11 *9.26.30*

300

400

500

9.56.12 *10.26.25*

600

56.50 *56.50*

700

2.58.11 *10.17.15*

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Net contents = *Copepods, large isopod, amphipods, agatta, phaeogomus, small gastropod, minute crin nautilus, stick-like fish*

*South Sea**cruise*

28° 23' N. 141° 41' 05" W.

2500	
2600	
2700	Surface net 200 yds. To:
2800	Very few copepods, rotifers,
2900	aphanozoa, very few flagellates,
3000	few micrurans.
3100	
3200	Many rotifers diff. from rail. On two
3300	small, app. same as
3400	same. Red color.
3500	Orab, & some egg
3600	
3700	
3800	
3900	
4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Surface net over at 9.18 a.m.

$\frac{1}{3}$

in " 9.30 " "

" " " " " "

Surface net over at 9.40 a.m.

$\frac{2}{3}$

" " " " " 9.50 " " 10 min.

" " over " 10.00 " " } 10 min.

" " in " 10.10 " " }

one mile

N X N
J L E

No. *13801*Date *19 March, 1902.*

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge: *Open* *Random* *2 Open*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	11. 41.30	19.20
		100	45.55	18 -
		150		
		200	11. 48.10	12.10 -
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Towing depth
100 fms.

28° 31' N.

141° 47' W.

nets hauls -

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Cloudy weather. Gentle			
50	sea and moderate breeze			
100	from N.E.			
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

gasus - family Coligidae.)

Autecium

No. *In 3501*, Date *17 March 02* ✓

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *70°* Surface *66°* Drift *1/2 mile N.N.W.*

Trawl or dredge *Open Trawler Intermediate*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

<i>100-120 fms</i>		0	<i>13:28.50</i>	<i>05 30</i>
		100	<i>33.80</i>	<i>1-01-00</i>
		150	<i>35.20</i>	<i>13-00-00</i>
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	10			
50	sea and moderate			
100	breeze from N.E.			
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 3807 Date 20th / 11 / 17

Machine. Recl.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
		0	6.11.00	
		100	9.02.40	11.00
		200	10.11.00	
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Contents: Largely same as in surface net. Poor haul.

Surface net: Poor haul - mainly crustacea. Crustaceans, mollusks, few marine worms, numerous annelids, Hydrozoa (stylite), Heliozoa (collimate) but no other interesting, few sponges.

29° 04' 15" N. 101° 12' 30" W.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Moderate breeze from N.E. Passing over clouds; sunny and bright mostly.			
50				
100				
200				
300	Both sails set.			
400				
500				
600				
700				
800				
900	Under way.			
1000				

REMARKS:

Under way from ...
at ... and ...
...
... 4 fms. deep

No. *3813* Date *21 March 1902*

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *69°* Surface *70°* Drift

Trawl or dredge: *Ober*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

A.M.

9.16.30

9.43.00

9.20.00

9.39.10

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*Trawl down
50 fms.*

22° 34' 45" S (147° 41' 45" W).

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
(pc)	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Moderate breeze from N.E. - Partly overcast - mist sun at intervals; moderate sea.			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Plankton =

Diphonophores, Ctenophores, many young
jellyfish, few colonial radiolarians, few
diatoms, many ctenophores, medusae,
jellyfish, few polychaetes, many young
fishes.

Autumn

No. *3554* Date *21 March 1912*

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor. *N 46° E*

Corrected temperature

Air *67* Surface *69*

Drift *N. 2° E. 1/2 N.*
43

Trawl or dredge *Of the ...*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>7-18.40</i>	<i>56 =</i>
		<i>75</i>	<i>23 -</i>	<i>7-51⁰⁰</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Surface net contents:
harmful fishes, Siphonophores,
Scallop, Pteropods, Siphonophores,
medusae, siphonophores

24° 58' 42" N 149° 11' W.

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Midnight breeze and sea from E. N. E. Only currents, Towing depth 50 fms			
50				
100				
200				
300	Bottom contents: Poppy, murex, etc. etc., etc. abundant, few abundant, few small, bryozoan, etc., etc.			
400				
500				
600				
700	Bottom contents: Poppy, murex, etc. etc., etc. abundant, few abundant, few small, bryozoan, etc., etc.			
800				
900				
1000				

REMARKS:

		REMARKS:		
Surface Net	over	at	7.20 PM	} 10
"	"	"	7.30 "	
"	"	over	7.34 "	} 10
"	"	in	7.44 "	
"	"	over	7.48 "	} 10
"	"	in	7.58 "	

No. 05

Date

22 Mar 1902

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

64

Surface

70

Drift

N 23° E
7.8

Trawl or dredge

Intermediate

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

4.30

9.00

13.20

9.09.20

24° 08' 15" N 150° 51' 21" W

36 miles

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	24.0	100	0.0	24.0
50	23.5	100	0.0	23.5
100	23.0	100	0.0	23.0
200	22.5	100	0.0	22.5
300	22.0	100	0.0	22.0
400	21.5	100	0.0	21.5
500	21.0	100	0.0	21.0
600	20.5	100	0.0	20.5
700	20.0	100	0.0	20.0
800	19.5	100	0.0	19.5
900	19.0	100	0.0	19.0
1000	18.5	100	0.0	18.5

REMARKS:

Bottoms: Various bryozoans, corals, sponges, macroalgae, phanerogams, few algerae, a translucent aphanizoa, a translucent filamentous, sagittate, papillose, annelids, pteropods, Echinophore, and apparently a species of *Hydra* = *Hydra*, *Hydra* (?), *Aphroditis* (?).

No. *Dr. 3806* Date *22 Mar. 1906*

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *70* Surface *71* Drift *N 1/2 E*

Trawl or dredge *Open water.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>7.11.30</i>	<i>7.40.05</i>
		100	<i>7.15.50</i>	<i>7.35.45</i>
		200		
		300		
		400	<i>7.44.40</i>	<i>8.09.40</i>
<i>Open water.</i>		500	<i>7.46.50</i>	<i>8.07.25</i>
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

13° 25' 36" N 152° 34' 30" W

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

1/2 mile
1/2

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	Long rolling sea. Moderate to			
100	stiff breeze from S. by E.			
200	Overcast. Towing light 1/2 hr.			
300			✓	
400				
500	Same conditions. Towing light			
600				25 fms.
700	Specimens - 20 fms =			
800	fishes large medium size; 1 small fish;			
900	2 sp. scorpions, 100 small fishes;			
1000	100 sp. small fishes, 2 sp. scorpions,			

REMARKS:

Obs. det. net - 25 fms = 2 kinds of
fishes; other small fish; squilla, hydromedusa;
octopus, eel, shrimp, amphipod, squid,
small crustacean, etc., 1 fish, etc.
squid, etc., many small crustaceans,
etc., etc. etc. etc., many fish
etc.

Hutchinson *P. Log 35.2*

No. *Ln 3807* Date *Mar 23 1902*

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *70*

Surface *72*

Drift

Trawl or dredge *Open Sea Trawl*

855° 1

S. 77°

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

8: 42.10 *9: 15.10*
47 = 9: 07 =

Surface net contents - 1 small amount of material - mostly sponges, radiolarians, thin plates, one large blue shrimp-like crustacean, brown or greenish; young of many fish; few bryozoans, a small, white, cup-like, abalone, small, blue, and a few, few Radiolarians.

23° 43' 15" N 154° 17' 30" W.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
5 mi	3100	
1/2 "	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Moderate breeze from E & N. Strong sea running. Overcast, misty.			
50				
100				
200				
300	Towing, depth 50 fms			
400				
500	Internal currents. Sea land			
600	Sea bottom = bottom from 500 fms			
700	1 Sabellus, few muds, large fragments			
800	fishes; some siphonophores, siphonophores, and			
900	sagittae; little siphonophores; small sponges;			
1000	1 large flat poropod; few siphonophores.			

REMARKS:

Surface Net set at 8.44 am } 10
 " " " at 8.54 " }
 " " " at 8.59 " } 10
 " " in " 9.09 " }
 " " over " 9.15 " } 10
 " " in " 9.25 " }
 depth 10-12 fms.

22° 10' N, 155° 25' 45" W,

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	75.5	4549	0.0	75.5
50	75.5	4549	0.0	75.5
100	75.5	4549	0.0	75.5
200	75.5	4549	0.0	75.5
300	75.5	4549	0.0	75.5
400	75.5	4549	0.0	75.5
500	75.5	4549	0.0	75.5
600	75.5	4549	0.0	75.5
700	75.5	4549	0.0	75.5
800	75.5	4549	0.0	75.5
900	75.5	4549	0.0	75.5
1000	75.5	4549	0.0	75.5

REMARKS:

67.00
11.00
11.00
11.00
11.00

10
19
10
10

2.30
7441.00
7.53.10
8.02.00
8.12.00

No. 3804 Date 27 March, '02

Tanner Machine. Reel.

Turns 120 Cor. + 5 Depth 125 fms.

Shot or lead 26 lbs.

Bottom fine co. s. bk. sp.

Bottom temperature fine cor. s. bk. sp.

No. of thermometer — Cor.

Corrected temperature 36.77°C

Air 72 Surface 75 Drift 1.5 mi.

Trawl or dredge: 2 sm. 8' beam

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
2. 35.00	2. 39.10	0	2. 35.00	
36.10	39.10	100	39.10	2. 3.17
2. 36.30	2. 37.20	120	37.20	100
		200	35.00	200
		300	33.00	300
		400	31.00	400
		500	29.00	500
		600	27.00	600
		700	25.00	700
		800	23.00	800
		900	21.00	900
		1000	19.00	1000
		1100	17.00	1100
		1200	15.00	1200
		1300	13.00	1300
		1400	11.00	1400
		1500	9.00	1500
		1600	7.00	1600
		1700	5.00	1700
		1800	3.00	1800
		1900	1.00	1900
		2000		2000
		2100		2100
		2200		2200
		2300		2300
		2400		2400

Snobs attached 1 lb. frame

corrected (19.28° E.)

2.0'

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

(11/27)
3 1/2

1/2 mile

1200
120
2-6

12
7
5
12-11

125 fms

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

Overcast, misty

Trawl net empty - Buoys continue
Shrimps, amphipods, etc., per minute
after 1000 fms. Holes, large corals, etc.
small shells, etc., 1000 fms.
Lower 1000 fms. 1 ft. water

Empty net. Trawl net 1000 fms.

REMARKS:

2.56 (km) 17
2.53
2.52 11
3.02 11
over

not filed
 No. 3812

Date 27 Mar. 1902

Tanner Machine. Reel.

Turns 49 Cor. + 2 Depth 51

Shot or lead 26 Lbs.

Bottom co. S. brk Sh. bl. Sp.

Bottom temperature 71°

No. of thermometer 92442 Cor.

Corrected temperature

Air 72 Surface 75 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<u>2.22.00</u>	<u>3.22.00</u>	0		
<u>3.21</u>	<u>3.21.55</u>	<u>100</u>		
		200		
		300		
		400		
		500		
		600		
		700		
The Station is previous work		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Honolulu 11/11/11 W. (mag)

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

#867.

496

49

545

12
10
4
5

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Dr. 3810* Date *27 Mar. '02*
Tanner Machine. Reel.
 Turns *203* Cor. + *8* Depth *211 fms.*
 Shot or lead *26 lbs.*
 Bottom *fine co S.*
 Bottom temperature *47.7*
 No. of thermometer *92442* Cor. *0*
 Corrected temperature
 Air *72* Surface *75* Drift *37 N.*
 Trawl or dredge *8' beam 2 m. po. dredge*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>J. 34.30</i>	<i>41.15</i>	0	<i>3.40.20</i>	<i>36.10</i>
<i>36.30</i>	<i>39.30</i>	100	<i>44.00</i>	<i>35.00</i>
<i>28.15</i>	<i>3.38.20</i>	200	<i>48.00</i>	<i>15.50</i>
		203		
		300	<i>3.52.30</i>	<i>4.12.00</i>
		400		
<i>5 fms. recovered</i>		500	<i>to net</i>	
		600		
<i>Dredge recovered</i>		700	<i>to net</i>	
		800		
		900		
		1000		
<i>Ship's dredge took</i>		1100	<i>lot of mud</i>	
<i>and anchor</i>		1200		
		1300		
<i>Bottom trawl with</i>		1400	<i>1 annelid</i>	
<i>trawl kept and up</i>		1500		
<i>and 1 annelid</i>		1600		
<i>found 1 annelid</i>		1700		
<i>from trawl</i>		1800		
<i>from trawl</i>		1900		
<i>2 fms. trawl</i>		2000		
		2100		
		2200		
		2300		
		2400		

4000

REMARKS:		
Surface set over at	3.48	hwy. 10
" " in	3.52	" "
" " over	3.56	" "
" " in	4.06	" 10

No. *4047* Date *27 March 12*

Machine. Reel.

Turns *51* Cor. + *2* Depth *53 fms*

Shot or lead *36 lb*

Bottom *Gr S. bk. sh.*

Bottom temperature *59°*

No. of thermometer *72442* Cor.

Corrected temperature

Air *73* Surface *75* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

36.30 *37.50*
36.30 *36.45*

0

51

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

3810.

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
246	2	3600	
51	10	3700	
245	2	3800	
	51	3900	
	53	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3811* Date *27 Nov '02*

Tanner Machine. Reel.

Turns *250* Cor. + *8*

Depth *238 fms*

Shot or lead *36 lbs.*

Bottom *Co S. R.*

Bottom temperature *70.5° (?)* Probably

No. of thermometer *92442* Cor.

Corrected temperature

Air *72* Surface *74* Drift *NX 8.5/86*

Trawl or dredge *2 Swabs*

SOUNDING WIRE.

PREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>53.51</i>	<i>59.20</i>	0	<i>53.51</i>	<i>45.50</i>
<i>51.10</i>	<i>57.05</i>	100	<i>51.30</i>	<i>41.50</i>
<i>51.50</i>	<i>53.10</i>	200	<i>51.40</i>	<i>36.55</i>
<i>52.10</i>	<i>52.30</i>	<i>230</i>	<i>10.10</i>	<i>30.50</i>
		<i>250</i>	<i>12.40</i>	<i>5.2 .00</i>
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
<i>Swabs attached</i>		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
<i>shrimps.</i>		2200		
		2300		
		2400		

39/10 mile

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

446 12
230 4
266 8
230
238 fuz

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<i>Light breeze from E. S. E. at 100 yds. from ship.</i>			
50				
100				
200				
300	<i>See next</i>			
400				
500	<i>See next</i>			
600				
700	<i>See next</i>			
800				
900	<i>See next</i>			
1000				

REMARKS:

*Current not run to 4.57 PM
" " " " " 5.10 "
" " " " " 5.15 "
" " " " " 5.25 "*

✓
No. *4048* Date *27 Mar 02*

Sigsbee Machine. Reel. *1*

Turns *52* Cor. + *2* Depth *54 fms*

Shot or lead *36 lbs*

Bottom *gy. br. S. bk. sp.*

Bottom temperature *71.0*

No. of thermometer *92442* Cor.

Corrected temperature

Air *73* Surface *74* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE:

DOWN.

UP.

5-47.50
48.20 *50-*
48.30

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

This station made
end of Ste 3811

611 3000		2500	18 1/2 m
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
496	12	3500	
50	10	3600	
446	2	3700	
	5-0	3800	
	5-2	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

One of the runners, broke
off the line; but carried
away on first runner at
bolt heads

No. *0-0012*. Date *7/1/00*Machine. *Recl.*Turns *Cor. +*Depth *621*Shot or lead *Hand*Bottom *Co. Co.*

Bottom temperature

No. of thermometer

none Cor.

Corrected temperature

Air *72*Surface *74*

Drift

Trawl or dredge

2 dip Nets

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

27/10/1914

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

255
247

2
9
25
25

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Light to quite large A. E. S. E.			
50	Clear & cloudy. White sun.			
100				
200	Small bubbles = 2 miles			
300	fine bubbles = 5 miles			
400	fine bubbles; 1 mile			
500	fine bubbles; 1 mile			
600	fine bubbles; 1 mile			
700	fine bubbles; 1 mile			
800	fine bubbles; 1 mile			
900				
1000				

REMARKS:

Surface out at 7.07
 " " in " 7.19
 " " out " 7.24
 " " in " 7.34
 " " out " 7.37
 " " in " 7.47

No. *4049* Date *28 March 1901*
Tanner Machine. Reel.
 Turns *176* Cor. + *7* Depth *183 fms.*
 Shot or lead *36 lbs.*
 Bottom *Co S.*
 Bottom temperature *55°*
 No. of thermometer *93442* Cor.
 Corrected temperature
 Air *72* Surface *74* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7-50-30</i>	<i>8.00.50</i>	<i>176</i>		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

This sounding was made with trawl was in bottom at 3513
but made no haul of anything
bottom was soft mud

Current Chart NE 1/4 S. 12/10 miles

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
496	12	3500	
176	5	3600	
320	7	3700	
	176	3800	
	183	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507.
Station

No. *3814* Date *23 Mar 92*
Tanner Machine. Reel.

Turns *275* Cor. + *7* Depth *284 fms*

Shot or lead *36 lbs.*

Bottom *Or S. Sh. St.*

Bottom temperature *46*

No. of thermometer *72442* Cor. *58.6*

Corrected temperature *{ 6.0 }*

Air *72* Surface *74* Drift *0.0*

Trawl or dredge *Tanner 8' Beam*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5-27.00</i>	<i>38.10</i>	0	<i>8-36.10</i>	<i>44.20</i>
<i>28.05</i>	<i>36 =</i>	100	<i>45.25</i>	<i>38.10</i>
<i>29.35</i>	<i>34.30</i>	200	<i>48.30</i>	<i>32.00</i>
<i>30.20</i>	<i>31</i>	<i>275</i>	<i>52.20</i>	<i>25.25</i>
		400	<i>58 =</i>	<i>23.45</i>
		<i>450</i>	<i>9-13.20</i>	<i>9-21.45</i>
		<i>500</i>		
		<i>600</i>		
		<i>700</i>		
		<i>800</i>		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500
	2600
	2700
	2800
	2900
	3000
	3100
	3200
	3300
	3400
12	3500
3	3600
9	3700
275	3800
284	3900
	4000

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Light breeze E x S.			
50	Partly overcast			
100	and rough			
200	Smooth sea.			
300				
400	Red contents. "Red hole" up.			
500	Deep red contents; 1 specimen			
600	2 specimens; 1 specimen			
700	Red contents; 1 specimen			
800	1 specimen.			
900				
1000				

REMARKS:

Sunrise not seen at S. 55° 00' 10"
" " " " 9.02 "
" " " " 9.06 " 11
" " " " 9.17 "

Sunrise not - " due to fog. Rainy & cloudy.
Temperature: 58° + 60°. Wind: N.W. 10 m.p.h.

No. *Hy 4050* Date *28 Mar 02*
Tanner Machine. Reel.
 Turns *40* Cor. + *2* Depth *42 fms*
~~Shot or lead~~ *36 lbs.*
 Bottom *Co S and sh. br. S.*
 Bottom temperature *72°*
 No. of thermometer *92442* Cor.
 Corrected temperature
 Air *75* Surface *75* Drift
 Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

9-47-42.30
9-47-47.50

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

This station number
was on the R 3514.

411		2500	15/10 miles
2750		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
496	12	3500	
40	10	3600	
456	2	3700	
	40	3800	
	42	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3815* Date *28 Mar '02.*

Tanner Machine. Reel.

Turns *302* Cor. + *10* Depth *312 fms*Shot or lead *36 lbs.*Bottom *co. s. & sh. bk. sh.*Bottom temperature *43.80*No. of thermometer *72442* Cor. *50.0*

Corrected temperature

Air *73* Surface *75* Drift *51.4 E*Trawl or dredge *8' Tanner Beam*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>90.15.30</i>	<i>23.20</i>	0	<i>10.30 =</i>	<i>53.50</i>
<i>07.15</i>	<i>23.40</i>	100	<i>35.</i>	<i>49.25</i>
<i>10.05</i>	<i>15.20</i>	200	<i>39.2</i>	<i>45 =</i>
<i>11 -</i>	<i>11.32</i>	300	<i>43.2</i>	<i>40.10</i>
<i>11.02</i>	<i>11.30</i>	400	<i>47.35</i>	<i>35.45</i>
		500	<i>52.10</i>	<i>31 =</i>
		<i>550</i>	<i>55 -</i>	
		<i>600</i>	<i>11-02.40</i>	<i>25.20</i>
		<i>700</i>	<i>03.50</i>	<i>11-25</i>
		<i>800</i>		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

3 2/10 mi

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

496 1 2
302 2
194 3 10
302
312

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Partly present, light breeze from S.E. Ocean floor, sunny and quite warm.			
50				
100				
200				
300				
400	Deep water - very deep;; 1 ...; 1 sponge;; few dentalia.			
500				
600				
700				
800				
900	Deep and ...			
1000				

REMARKS:

Surf in ... out, 10.33 am) 7
" in, 10.40 "
" out, 10.54 ") 11
" in, 11.05 "

few small blue copepods.

No. *4951* Date *2 Mar 92*
Tanner Machine. Reel.
 Turns *270* Cor. + *8* Depth *278 fms*
 Shot or lead *36 lbs.*
 Bottom *fine Co. S. S. p.*
 Bottom temperature *64*
 No. of thermometer *92442* Cor.
 Corrected temperature
 Air Surface Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11:10</i>	<i>12:10</i>	0		
<i>50.0</i>	<i>11:00</i>	100		
<i>51.0</i>	<i>10:50</i>	200		
<i>52.0</i>	<i>10:40</i>	300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

The net was lowered at 10:21, and see next page for station R-3816.		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
496	12	3500	
240	4	3600	
276	8	3700	
	226	3800	
	228	3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

9-571

5³/10 mile

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

3700
3800
3900

4000

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1st 8' Basin Found, 3 traps
 Remarks: 1 dead dog, 1 cat.

no results -

No. 3817 Date 28 Mar 1902
 Machine. Reel.

Turns 200 Cor. + Depth 200 fms

Shot or lead 36 lb.

Bottom G.S. & S.

Bottom temperature 73.5

No. of thermometer 92442 Cor. 0.20

Corrected temperature

Air 76 Surface 76 Drift 1 1/2 S.

Trawl or dredge 5 1/2 ft. dredge

fm

SOUNDING WIRE.

DOWN.	UP.
1-08 10.21.10	
10 10.45	
11 16.00	
12 13.00	
13 1. 7.14	

TURNS.

0
100
200
300
310
450
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400

DREDGE ROPE.

DOWN.	UP.
1-16.00	2.00
2.00	
2.50	2.50
3.00	2.50
4.00	10.20
5.00	11.00

The station marks are 3816

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Contents.

1 brisinga; 1 crab; several

No. *1001* Date *11 Mar 1902*
 Machine. Reel.
 Turns *339* Cor. *+ 11* Depth *350 fms*
 Shot or lead *36 lb*
 Bottom *gy. S.*
 Bottom temperature *44°*
 No. of thermometer *92442* Cor.
 Corrected temperature
 Air *73* Surface *75* Drift *W*
 Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>2.11.10</i>	<i>2.11.00</i>	0
<i>42.70</i>	<i>53.00</i>	100
<i>43.20</i>	<i>50.00</i>	200
<i>44.10</i>	<i>49.10</i>	300
<i>44.40</i>	<i>48.45</i>	<i>339</i> 400
		500
		600
		700
		800
		900
		1000
		1100
		1200
		1300
		1400
		1500
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

Station 1, N⁴S. (mag)

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

4.6
237
157
12
11
339
350

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Sigsbee

Machine. No/Reel.

Navy

Turns 200 Cor. +

Depth

Shot or lead

36 lbs

Bottom

Bottom temperature

44

No. of thermometer

Cor.

Corrected temperature

Air

72

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

23.20

100

19.10

200

15.00

300

400

9.44.25 10.05.15

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Stations 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

4500 200
300 210
4300 27
4500 200
4300 200

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Surf net over at 7.40 am
1 7.45
2 7.50
3 7.55
4 8.00
5 8.05
6 8.10
7 8.15
8 8.20
9 8.25
10 8.30
11 8.35
12 8.40
13 8.45
14 8.50
15 8.55
16 9.00
17 9.05
18 9.10
19 9.15
20 9.20
21 9.25
22 9.30
23 9.35
24 9.40
25 9.45
26 9.50
27 9.55
28 10.00
29 10.05
30 10.10
31 10.15
32 10.20
33 10.25
34 10.30
35 10.35
36 10.40
37 10.45
38 10.50
39 10.55
40 11.00

No. 4052 Date 31 Mar 92

Machine. Reel.

Turns 268 Cor. + 27 Depth 295

Shot or lead 36 lbs

Bottom fine co S. blk sh.

Bottom temperature 54.5

No. of thermometer 92442 Cor.

Corrected temperature

Air 71 Surface 74 Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0.21.0 10.50.0

0

0.22.0 10.45.0

100

0.23.0 10.40.0

200

0.24.0 10.35.0

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Station 141 S. N 6 1/2 S. 1000

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
1420	3600	
149	3700	
1432	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Antelusion Pat Log 1.8 ✓
 No. *5* 3819 Date 31 Mar '02
Sigsbee Machine. #1 Reel. Navy.
 Turns 64 Cor. + 6 Depth 70 fms
 Shot or lead 26 lbs.
 Bottom br S. - R. G.
 Bottom temperature 73°
 No. of thermometer 92442 Cor. N 41° E
 Corrected temperature { N 41° E
 Air 79 Surface 75 Drift { 3/10 m
 Trawl or dredge Ship's.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2-11.30	14.25	64	2-22 ⁰⁰	48.30
12.10	13.20	100	27.30	43.10
		150	30.05	40.30
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Surface Net up at 12.10
" " " at 12.10

~~Diamond~~
Lean Light, Molokai Id
OK $8\frac{1}{2} \times 6\frac{1}{8} \times 6$, mag. $5\frac{1}{4}$ Tomah
H.O.B.
in

4600 246
64 240

4536 6
64

70

Contents dredge:

Half full sand & broken
shells and (coral) nodules.
Branching corallines; 2 small fishes.

$$\begin{array}{r}
 3 \overline{) 52} \quad 2/3 \\
 \underline{16} \\
 2 \\
 \underline{32} \\
 20
 \end{array}$$

3 - 60* shot -
13 - 35* "

